

1. EXPONENTS

1. If we take two numbers and put a power on both of those numbers and multiply the two numbers that come from that power, then the root of the answer that will come will be the multiplication of both the numbers taken above.

Proof

Let's take a two numbers say X and Y

Now

Take a power on both of them

X^n $-A$

Y^n $-B$

Now multiply A and B from each other

$$X^n \times Y^n = (XY)^n$$

So the Nth root of the $(XY)^n$ is the Product of the above taken two numbers which we said the X and Y

$$\sqrt[n]{(XY)^n} = \text{product of the number } X \text{ and } Y$$

Hence our theorem is proved